

## EAST Search History

| Ref # | Hits | Search Query                            | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 2    | "6767193".pn.                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/21 14:27 |
| L2    | 41   | ("137"/\$.ccls.) and (poppet same reed) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/21 14:50 |
| L3    | 1101 | 137/512.1.ccls.                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/21 14:51 |
| L4    | 2    | L3 and (reed same poppet)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/21 14:51 |
| S1    | 642  | 137/512.15.ccls.                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/21 10:32 |
| S2    | 370  | 137/512.4.ccls.                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/08/18 11:45 |
| S3    | 693  | 137/855.ccls.                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/08/18 13:49 |
| S4    | 342  | 137/856.ccls.                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/08/18 14:10 |
| S5    | 136  | 137/857.ccls.                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/08/18 14:13 |

## EAST Search History

|     |     |                  |   |    |     |                  |
|-----|-----|------------------|---|----|-----|------------------|
| S6  | 127 | 137/858.ccls.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/18 14:19 |
| S7  | 533 | 417/559.ccls.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/22 08:41 |
| S8  | 961 | 417/569.ccls.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/22 09:19 |
| S9  | 642 | 137/512.15.ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/22 10:00 |
| S10 | 370 | 137/512.4.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/22 09:13 |
| S11 | 693 | 137/855.ccls.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/22 09:13 |
| S12 | 342 | 137/856.ccls.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/22 09:13 |
| S13 | 136 | 137/857.ccls.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/22 09:13 |
| S14 | 127 | 137/858.ccls.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/22 10:00 |
| S15 | 533 | 417/559.ccls.    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/22 09:13 |

## EAST Search History

|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S16 | 154 | valve and bending and (S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15)             | USPAT   | OR | OFF | 2005/08/22 09:23 |
| S17 | 17  | valve NEAR bending and (S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15)            | USPAT   | OR | OFF | 2005/08/22 09:30 |
| S18 | 0   | valve NEAR "bending strength" and (S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15) | USPAT   | OR | ON  | 2005/08/22 09:31 |
| S19 | 3   | "bending strength" and (S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15)            | USPAT   | OR | ON  | 2005/08/22 09:31 |
| S20 | 136 | 137/857.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/22 10:06 |
| S21 | 342 | 137/856.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/22 10:22 |
| S22 | 693 | 137/855.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/22 11:52 |
| S25 | 520 | "discharge valve" AND "reed" AND "opening" AND (bending OR thickness OR material)      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/23 10:23 |
| S26 | 64  | "variable displacement compressor" AND "reed valve"                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/22 16:07 |
| S27 | 0   | "variable displacement compressor" NEAR "reed valve"                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/22 16:07 |
| S28 | 7   | "variable displacement compressor" SAME "reed valve"                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/22 16:07 |

## EAST Search History

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| S29 | 2   | "5143027".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/23 09:44 |
| S30 | 319 | "reed valve" same ("opening" with (plurality or multiple or two))                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/23 11:00 |
| S31 | 1   | "reed valve" same ("opening" with (plurality or multiple or two)) and "small width portion" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/23 11:01 |
| S32 | 0   | "reed valve" same ("opening" with (plurality or multiple or two)) and "small\$3 width"      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/23 11:01 |
| S33 | 1   | "reed valve" and "small width portion"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/23 11:02 |
| S34 | 211 | "reed valve" and (opening same width)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/23 13:41 |
| S35 | 247 | "reed valve" and "poppet valve"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/23 13:41 |
| S36 | 106 | "reed valve" and "poppet valve" and compressor  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/23 13:44 |
| S37 | 158 | "discharge valve" and "poppet valve" and compressor   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/23 13:46 |
| S38 | 75  | ("discharge valve" same "poppet valve") and compressor                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/08/23 13:46 |

## EAST Search History

|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S39 | 2   | "20050027316".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/30 14:22 |
| S40 | 2   | "20050027316" .pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/30 15:34 |
| S41 | 2   | "6820910" .pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/30 15:35 |
| S42 | 29  | (valve and reed and bending<br>strength and discharge and poppet).<br>clm. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/02/17 10:18 |
| S43 | 357 | "137"/\$.ccls. and "reed valve"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/21 14:10 |

# Interference Search - BCM

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L5    | 1    | (compress\$4 and discharge and valve and reed and bending and strength and small and width and poppet).clm. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/02/21 15:20 |